

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL091621\
 Data File : VL037634.D
 Acq On : 17 Sep 2021 3:14
 Operator : SY/AP
 Sample : M3780-02 2X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

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 9/20/2021 5:27:42 PM

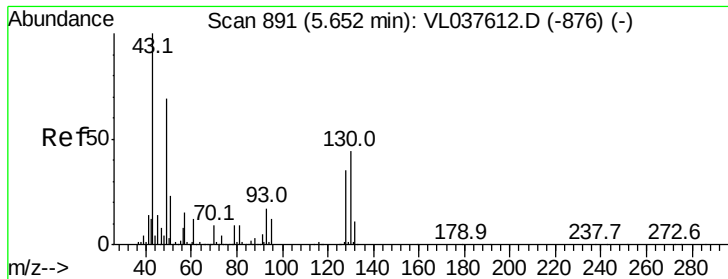
Quant Time: Sep 17 10:06:23 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 17 10:06:23 2021
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1503054	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4283048	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3711775	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2630700	9.81	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	33327m	0.123	ppbv	
3) Chlorodifluoromethane	2.98	51	78701m	0.278	ppbv	
4) Chloromethane	3.13	50	63110	0.602	ppbv	90
9) Propene	3.02	41	625749	6.257	ppbv #	64
10) Heptane	8.10	43	151300	0.648	ppbv	99
11) Trichlorofluoromethane	3.93	101	25061	0.115	ppbv	95
13) Ethanol	3.64	45	48580903	4966.367	ppbv	87
15) Acetone	3.84	43	6946848	44.484	ppbv	98
19) Isopropyl Alcohol	4.00	45	12470387	146.762	ppbv #	93
20) Methylene Chloride	4.33	84	118537	1.590	ppbv	98
25) Ethyl Acetate	5.66	43	1267036	3.350	ppbv #	92
26) Hexane	5.67	57	327989	1.826	ppbv #	27
29) Chloroform	5.73	83	1385743	5.282	ppbv	97
30) Cyclohexane	7.12	84	72169m	0.470	ppbv	
34) 2-Butanone	5.23	43	636033m	3.654	ppbv	
35) Carbon Tetrachloride	7.01	117	10272m	0.042	ppbv	
36) Benzene	6.87	78	251592	0.704	ppbv #	90
41) Tetrahydrofuran	6.02	42	135326m	1.654	ppbv	
44) 2,2,4-Trimethylpentane	7.85	57	325038	0.541	ppbv #	86
52) Tetrachloroethene	11.20	164	10105m	0.074	ppbv	
53) Toluene	9.78	91	1911820	4.816	ppbv	99
58) Ethyl Benzene	12.69	91	390371	0.792	ppbv	93
59) m/p-Xylene	12.94	91	1392554m	3.243	ppbv	
60) o-Xylene	13.67	91	468753	1.147	ppbv	98
61) Styrene	13.51	104	169036	0.839	ppbv	100
64) n-propylbenzene	15.54	120	16074m	0.109	ppbv	
69) p-Isopropyltoluene	17.63	119	162625	0.285	ppbv #	91
72) 4-Ethyltoluene	15.81	105	101620m	0.217	ppbv	
73) 1,3,5-Trimethylbenzene	15.98	105	86802m	0.199	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	306774	0.666	ppbv #	75
76) 1,4-Dichlorobenzene	17.12	146	54883m	0.194	ppbv	
79) Naphthalene	22.17	128	95832m	0.339	ppbv	
80) Naphthalene,2-methyl-	24.96	142	12022	0.186	ppbv #	83

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. 0.00 min

Lab File: VL037634.D

Acq: 17 Sep 2021 3:14

Instrument :

MSVOA_L

ClientSampled :

SV2

Tot Ion: 49 Resp: 1503054

Ion Ratio Lower Upper

49 100

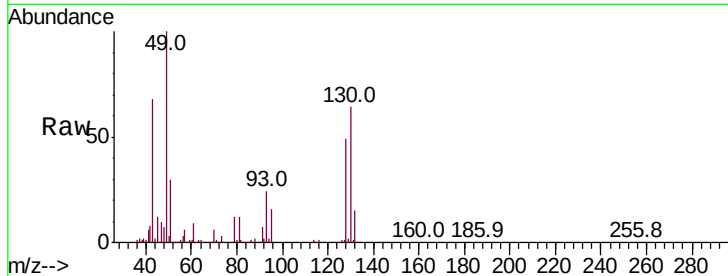
128 52.3 27.9 83.6

130 67.1 33.9 101.7

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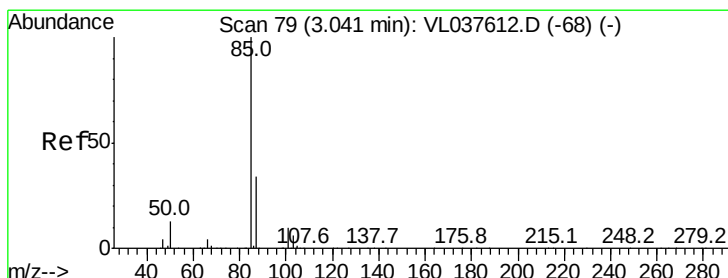
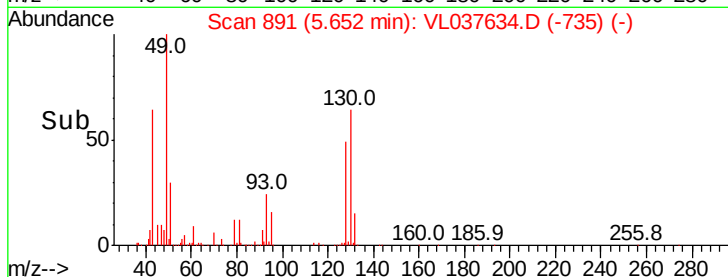
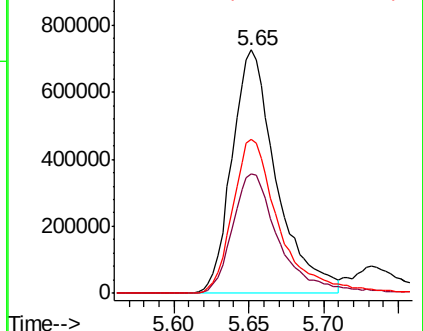
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.123 ppbv m

RT: 3.04 min Scan# 78

Delta R.T. -0.00 min

Lab File: VL037634.D

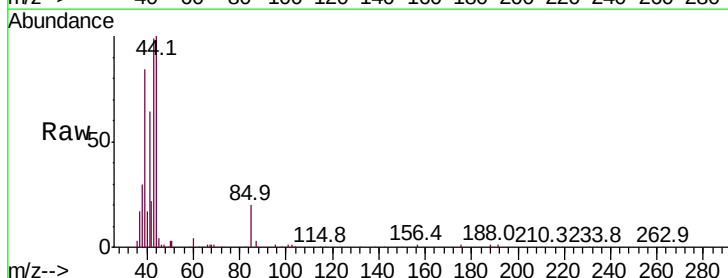
Acq: 17 Sep 2021 3:14

Tgt Ion: 85 Resp: 33327

Ion Ratio Lower Upper

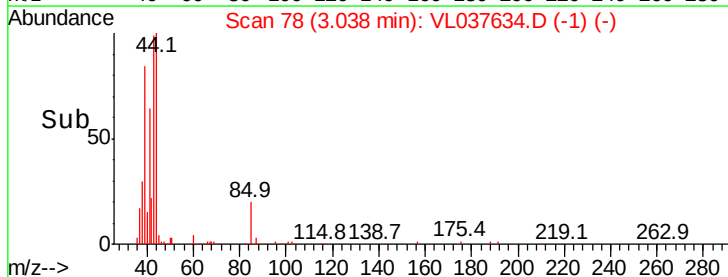
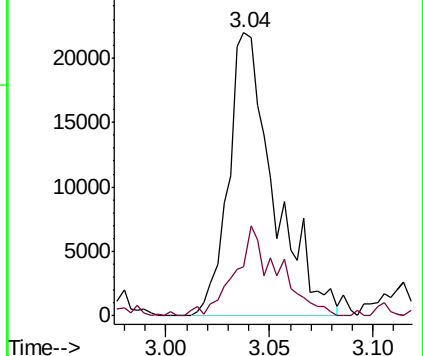
85 100

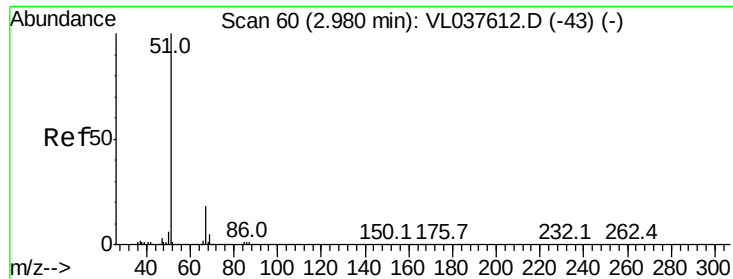
87 17.6 26.8 40.2#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





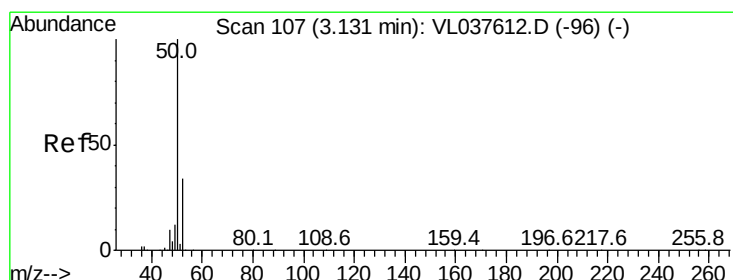
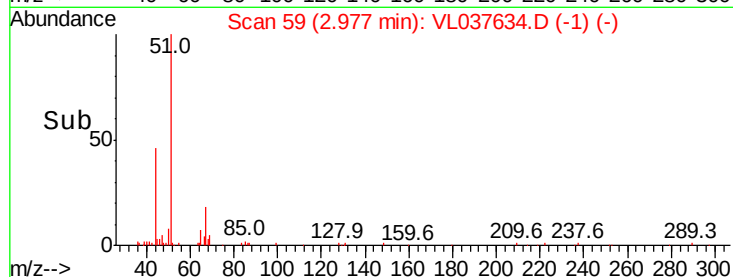
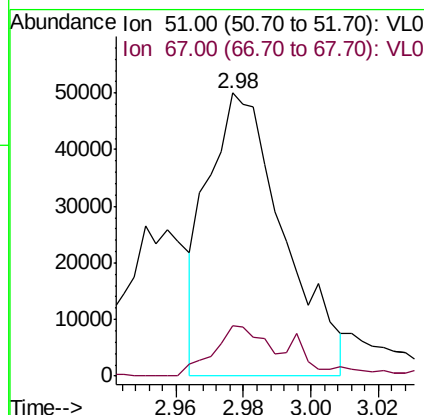
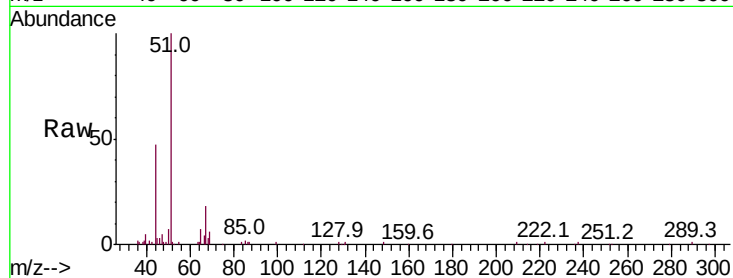
#3
Chlorodifluoromethane
Concen: 0.278 ppbv
RT: 2.98 min Scan# 59
Delta R.T. -0.00 min
Lab File: VL037634.D
Acq: 17 Sep 2021 3:14

Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion	Ratio	Lower	Upper
51	100		
67	3.2	14.0	21.0#

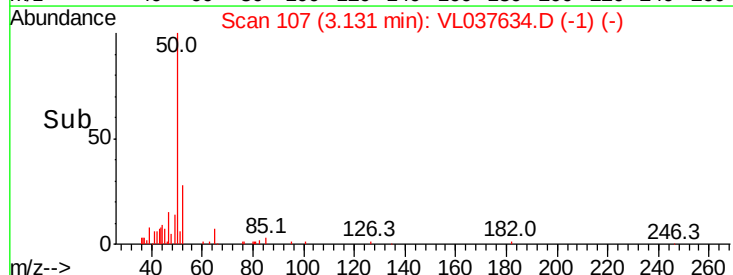
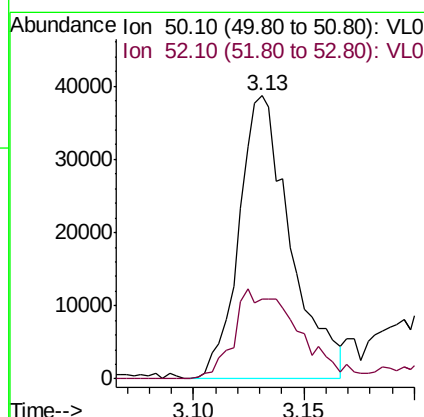
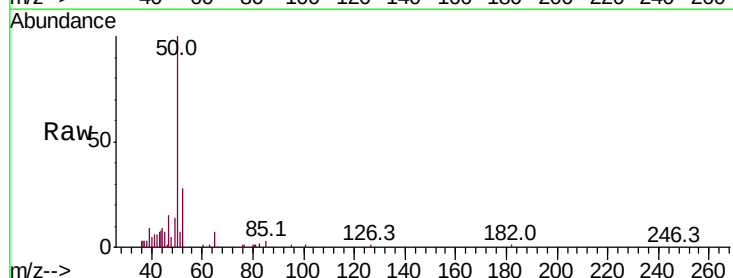
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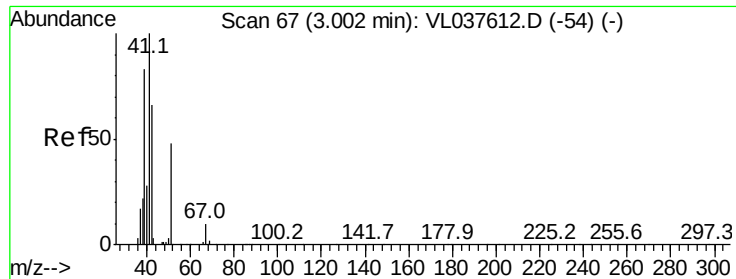
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#4
Chloromethane
Concen: 0.602 ppbv
RT: 3.13 min Scan# 107
Delta R.T. 0.00 min
Lab File: VL037634.D
Acq: 17 Sep 2021 3:14

Tgt Ion	Ratio	Lower	Upper
50	100		
52	28.2	27.1	40.7





#9

Propene

Concen: 6.257 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL037634.D

Acq: 17 Sep 2021 3:14

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tot Ion: 41 Resp: 625749

Ion Ratio Lower Upper

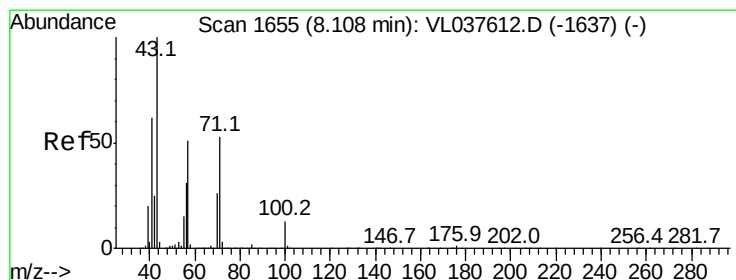
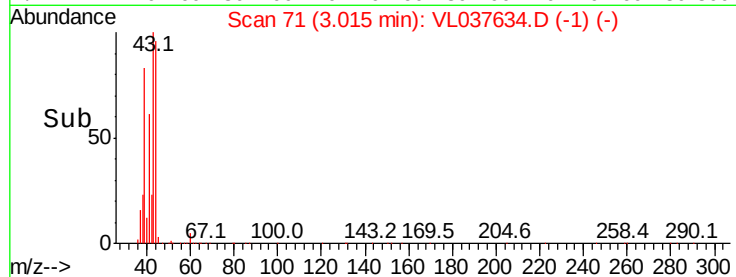
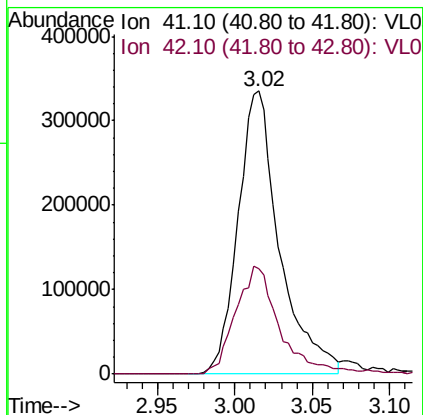
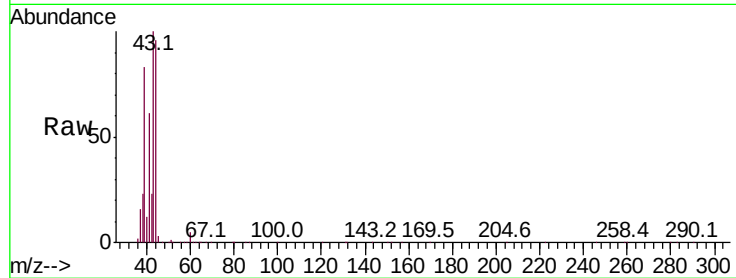
41 100

42 41.4 57.2 85.8#

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#10

Heptane

Concen: 0.648 ppbv

RT: 8.10 min Scan# 1653

Delta R.T. -0.01 min

Lab File: VL037634.D

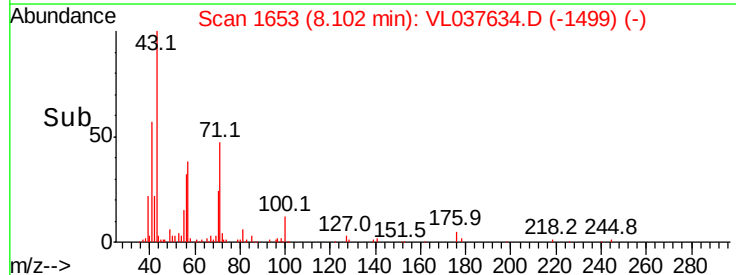
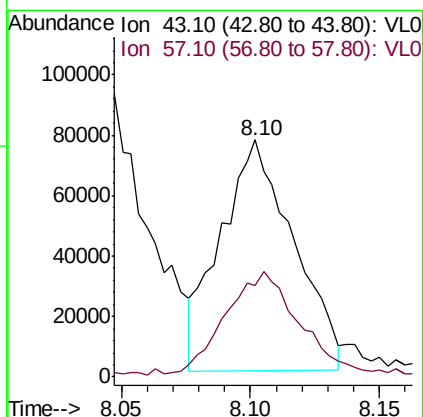
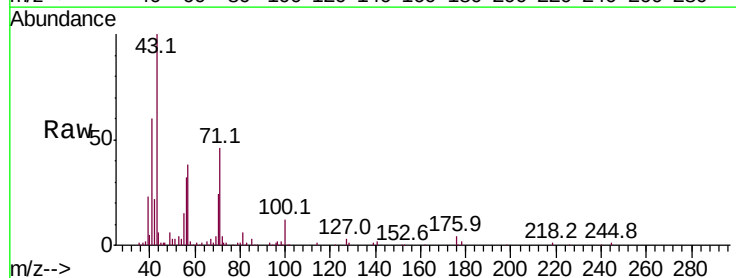
Acq: 17 Sep 2021 3:14

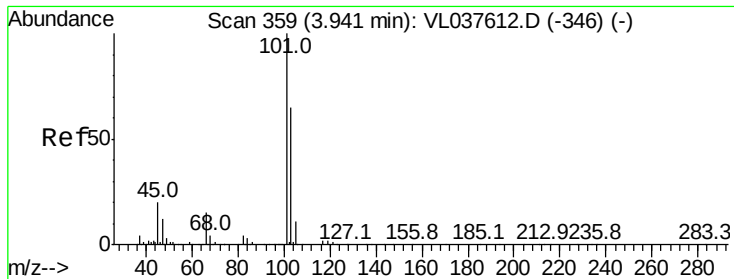
Tgt Ion: 43 Resp: 151300

Ion Ratio Lower Upper

43 100

57 49.6 40.1 60.1





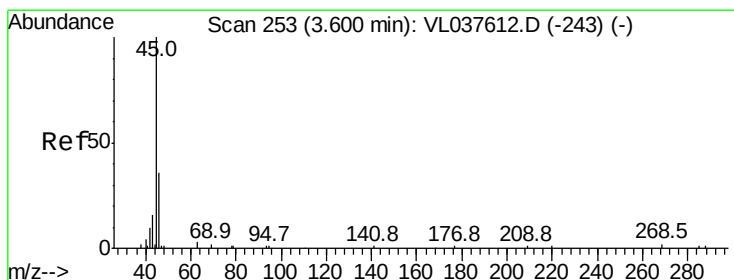
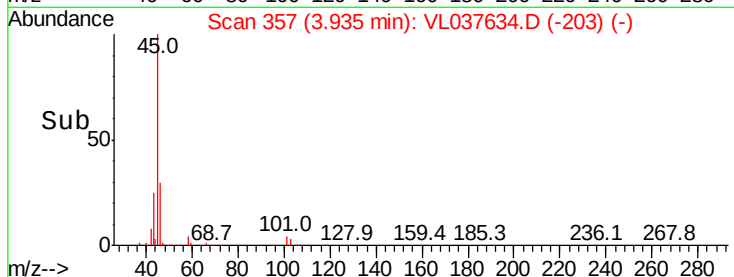
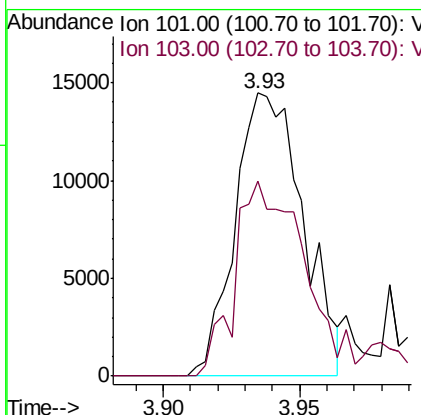
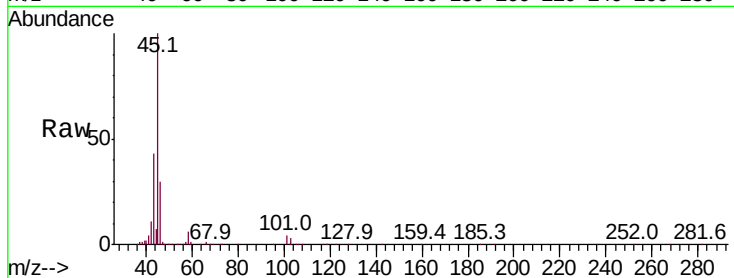
#11
 Trichlorofluoromethane
 Concen: 0.115 ppbv
 RT: 3.93 min Scan# 357
 Delta R.T. -0.01 min
 Lab File: VL037634.D
 Acq: 17 Sep 2021 3:14

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Tot Ion	Ratio	Lower	Upper
101	100		
103	68.8	51.9	77.9

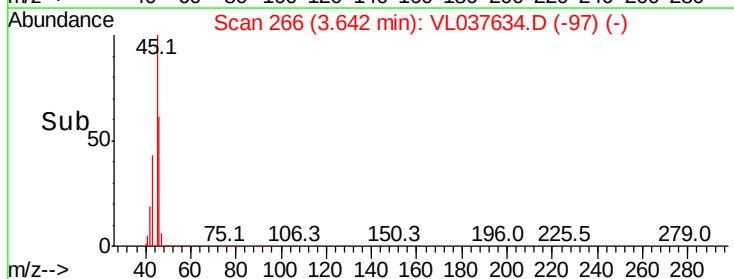
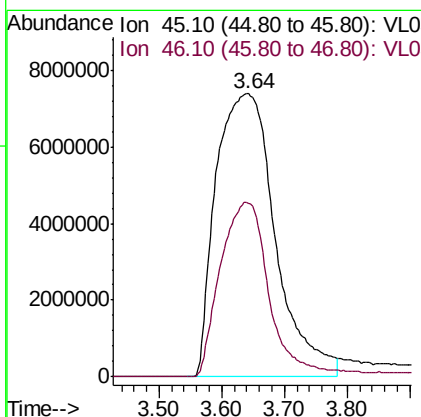
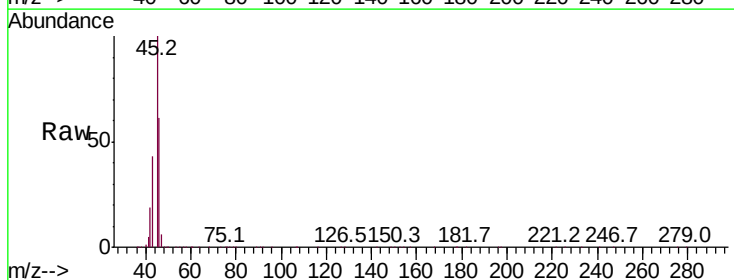
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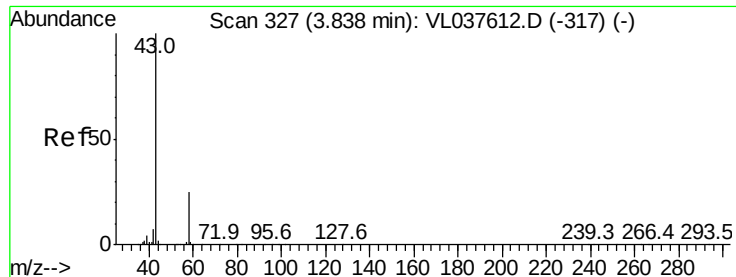
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#13
 Ethanol
 Concen: 4966.367 ppbv
 RT: 3.64 min Scan# 266
 Delta R.T. 0.04 min
 Lab File: VL037634.D
 Acq: 17 Sep 2021 3:14

Tgt Ion	Ratio	Lower	Upper
45	100		
46	51.4	17.2	68.8





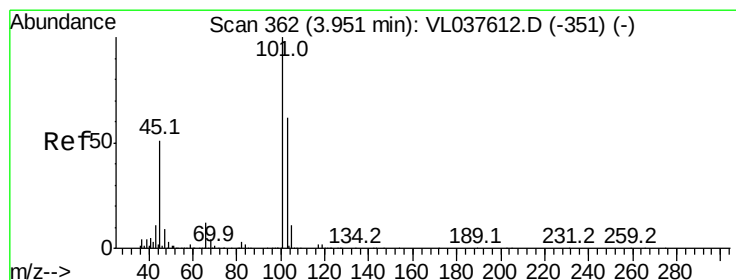
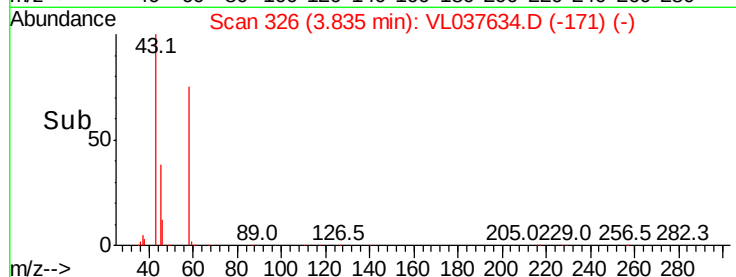
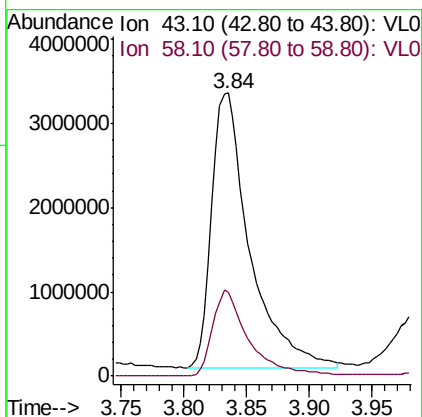
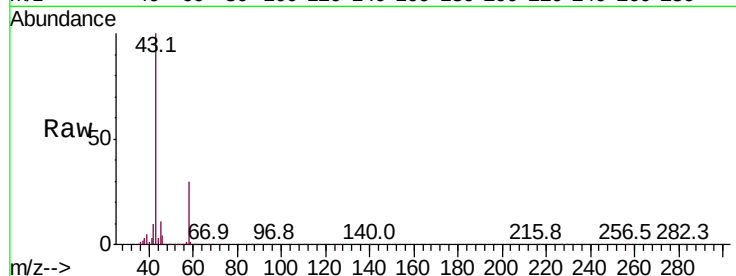
#15
Acetone
Concen: 44.484 ppbv
RT: 3.84 min Scan# 326
Delta R.T. -0.00 min
Lab File: VL037634.D
Acq: 17 Sep 2021 3:14

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tot Ion: 43 Resp: 6946848
Ion Ratio Lower Upper
43 100
58 29.8 24.9 37.3

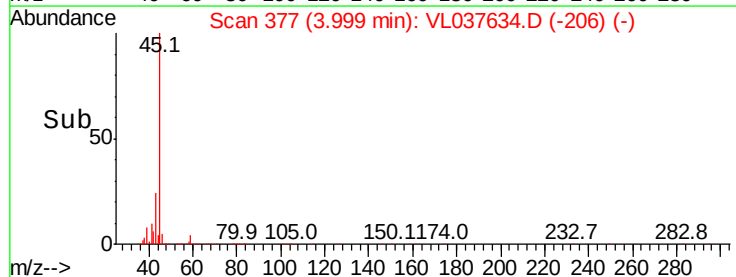
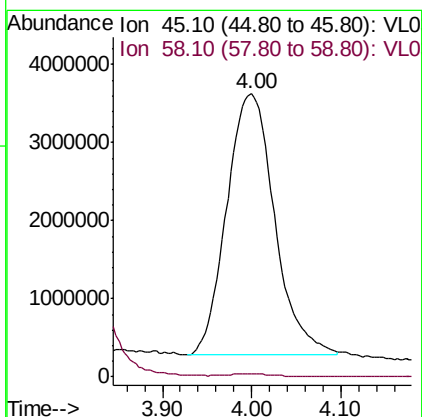
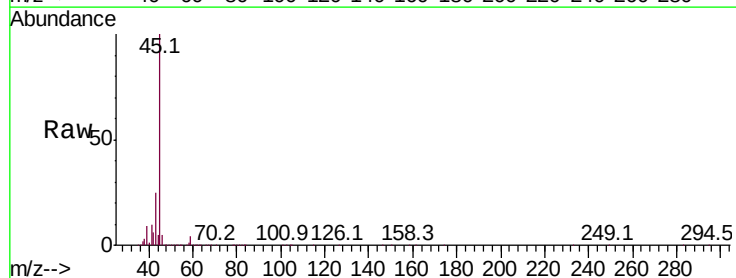
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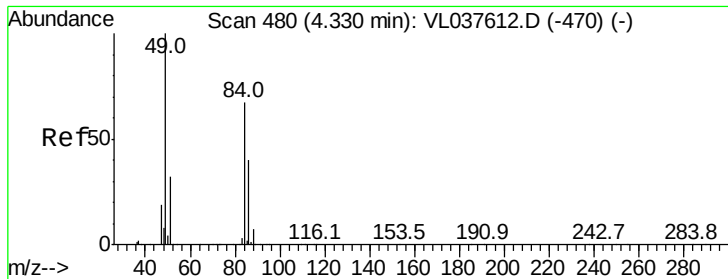
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#19
Isopropyl Alcohol
Concen: 146.762 ppbv
RT: 4.00 min Scan# 377
Delta R.T. 0.05 min
Lab File: VL037634.D
Acq: 17 Sep 2021 3:14

Tgt Ion: 45 Resp: 12470387
Ion Ratio Lower Upper
45 100
58 1.3 2.9 4.3#





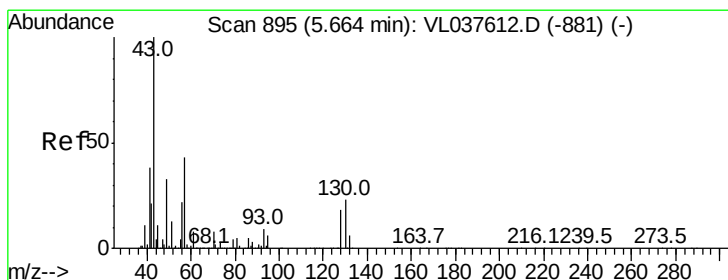
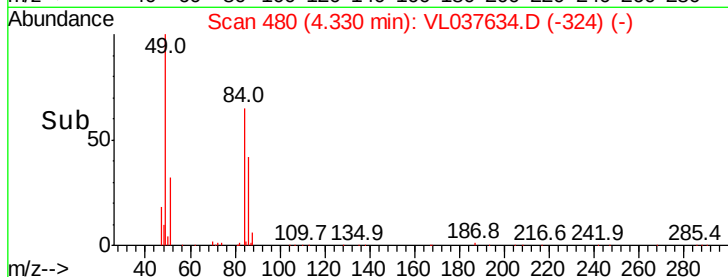
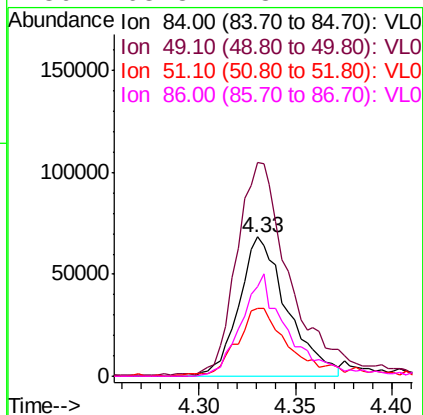
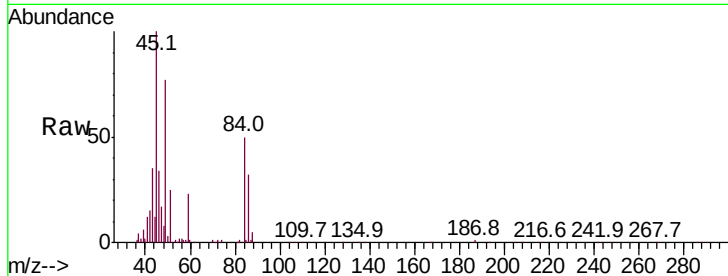
#20
Methylene Chloride
Concen: 1.590 ppbv
RT: 4.33 min Scan# 480
Delta R.T. 0.00 min
Lab File: VL037634.D
Acq: 17 Sep 2021 3:14

Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion	84	Resp	118537
Ion Ratio	Lower	Upper	
84	100		
49	151.8	120.0	180.0
51	47.1	38.0	57.0
86	63.8	48.2	72.2

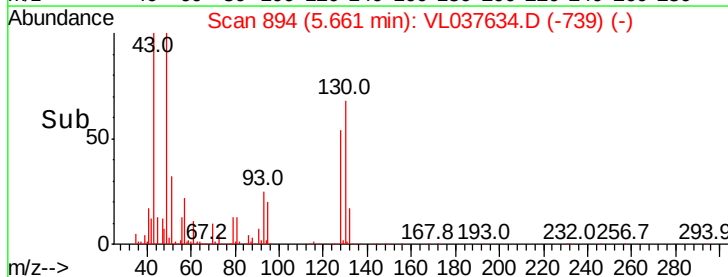
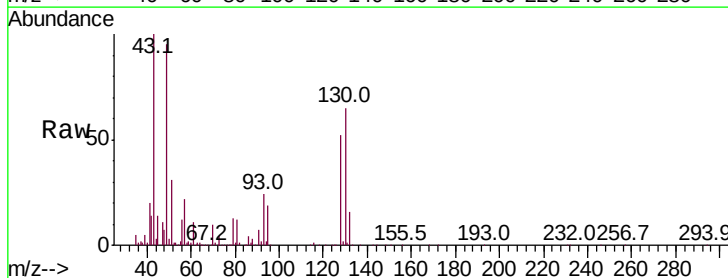
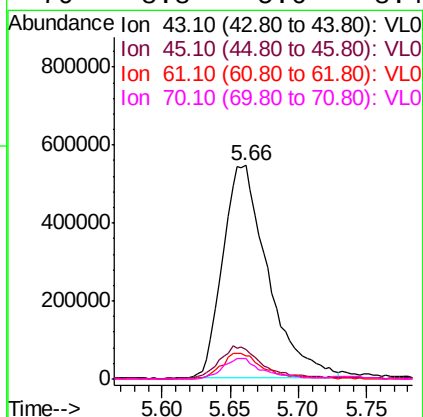
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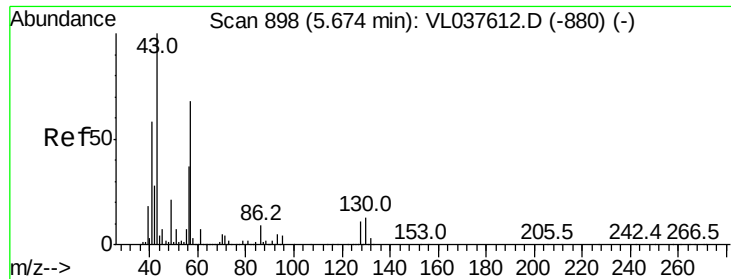
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#25
Ethyl Acetate
Concen: 3.350 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.00 min
Lab File: VL037634.D
Acq: 17 Sep 2021 3:14

Tgt Ion	43	Resp	1267036
Ion Ratio	Lower	Upper	
43	100		
45	14.7	8.0	12.0#
61	11.6	7.5	11.3#
70	8.8	5.6	8.4#





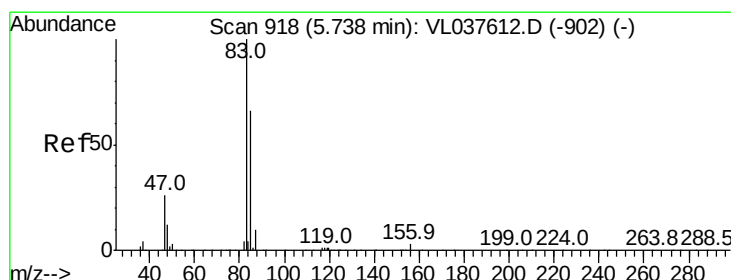
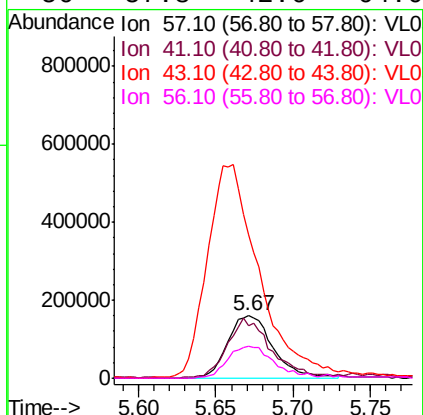
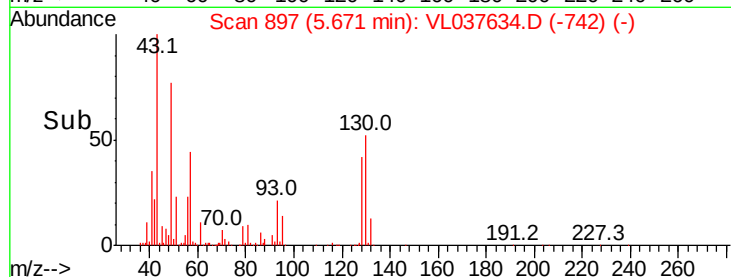
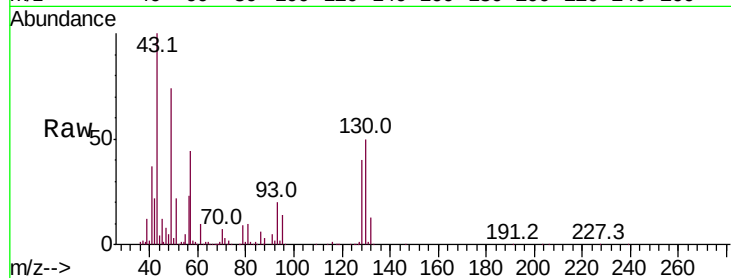
#26
Hexane
Concen: 1.826 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.00 min
Lab File: VL037634.D
Acq: 17 Sep 2021 3:14

Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion	Ratio	Lower	Upper
57	100		
41	93.2	70.9	106.3
43	399.1	170.4	255.6
56	57.8	42.6	64.0

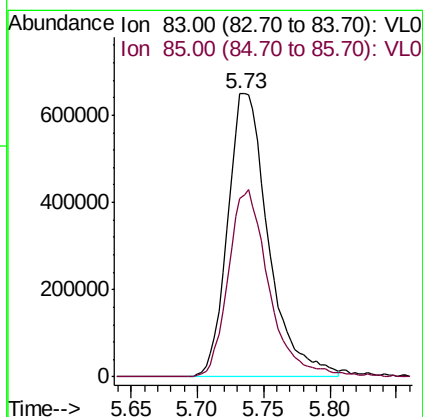
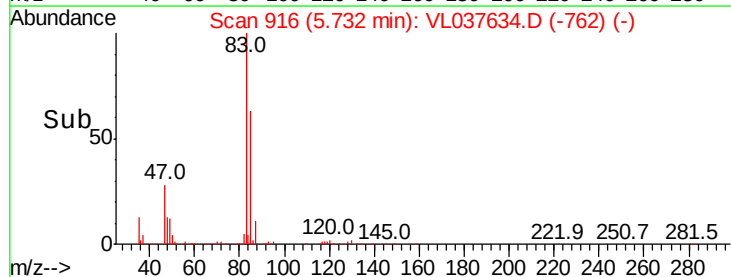
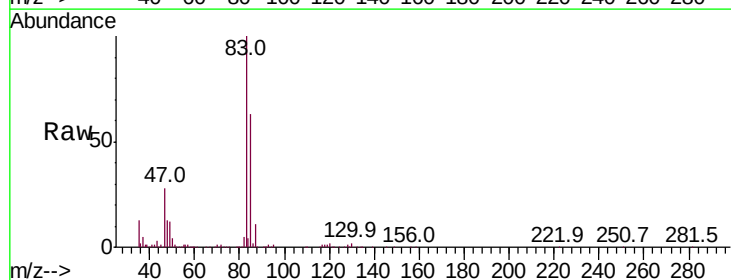
Manual Integrations
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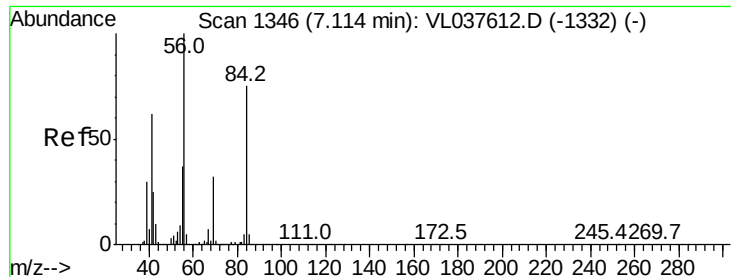
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#29
Chloroform
Concen: 5.282 ppbv
RT: 5.73 min Scan# 916
Delta R.T. -0.01 min
Lab File: VL037634.D
Acq: 17 Sep 2021 3:14

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.2	52.6	79.0





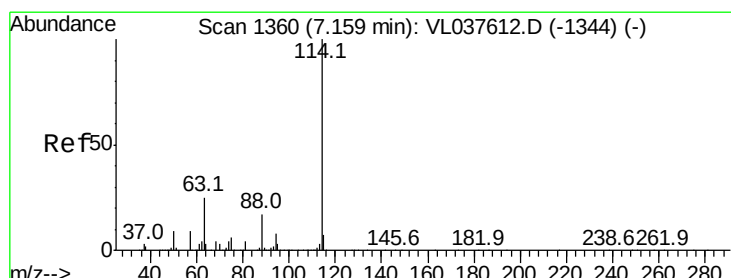
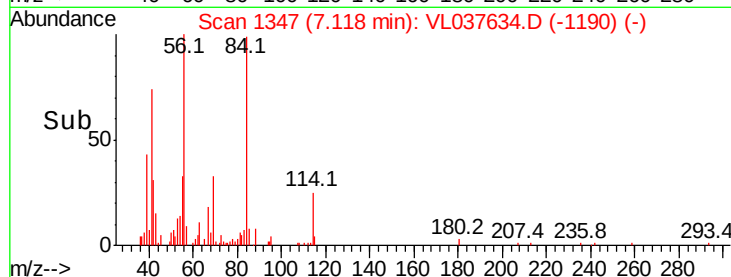
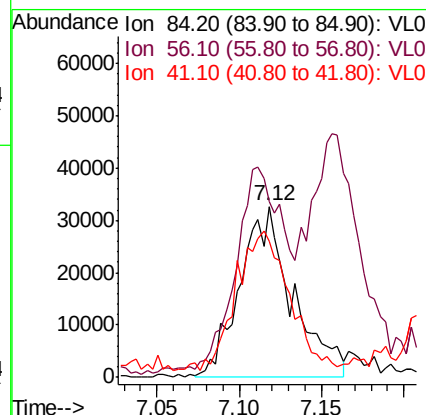
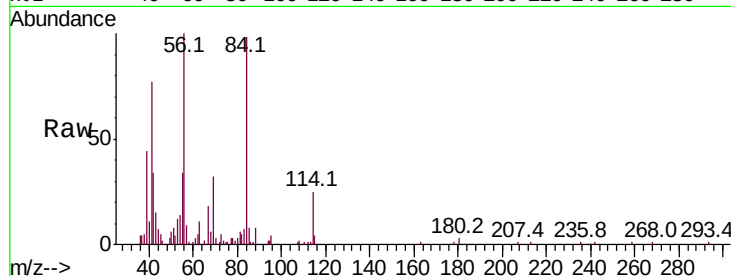
#30
Cyclohexane
Concen: 0.470 ppbv m
RT: 7.12 min Scan# 1347
Delta R.T. 0.00 min
Lab File: VL037634.D
Acq: 17 Sep 2021 3:14

Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion	Ratio	Lower	Upper
84	100		
56	105.1	113.6	170.4#
41	83.5	67.9	101.9

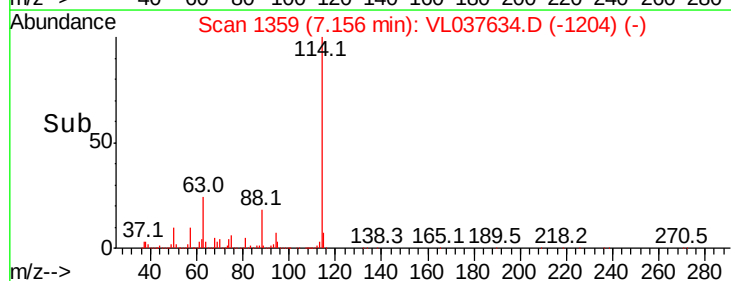
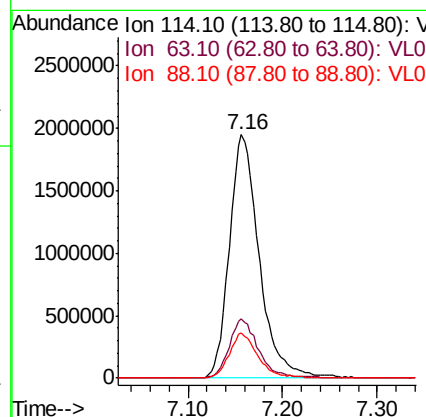
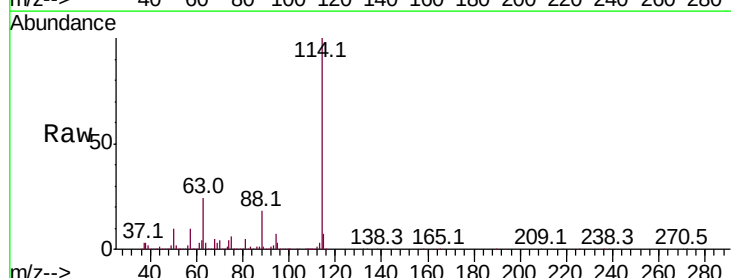
Manual Integrations
APPROVED

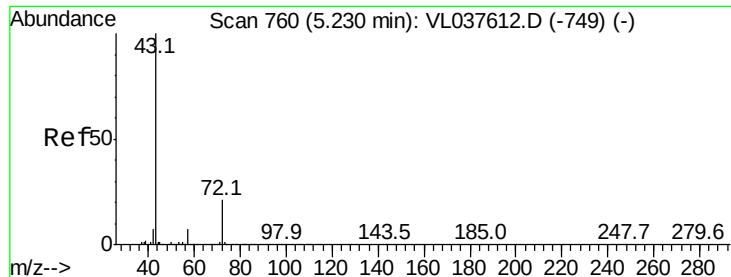
MMDadoda
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.00 min
Lab File: VL037634.D
Acq: 17 Sep 2021 3:14

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.2	19.6	29.4
88	17.9	14.2	21.4





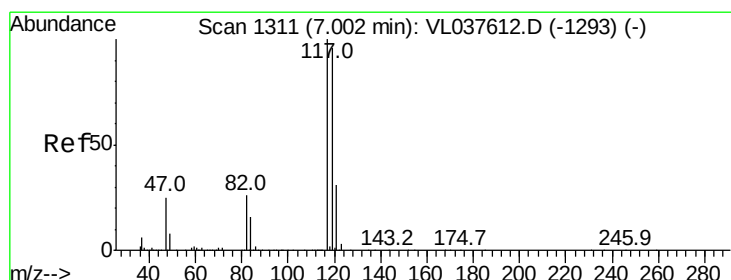
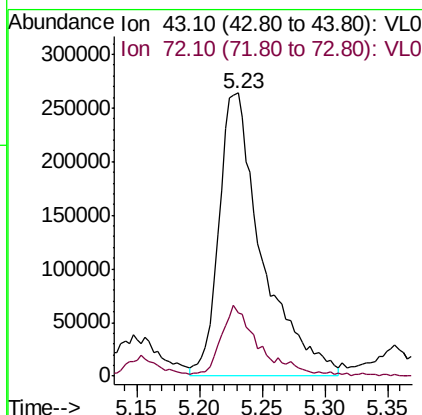
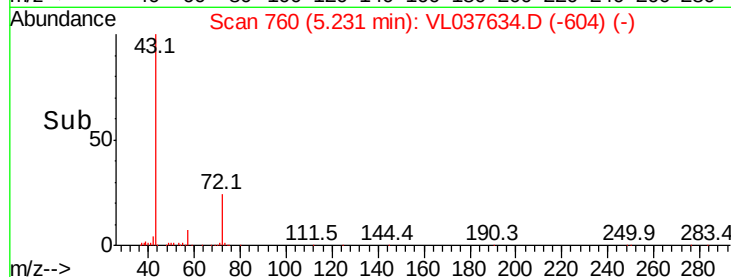
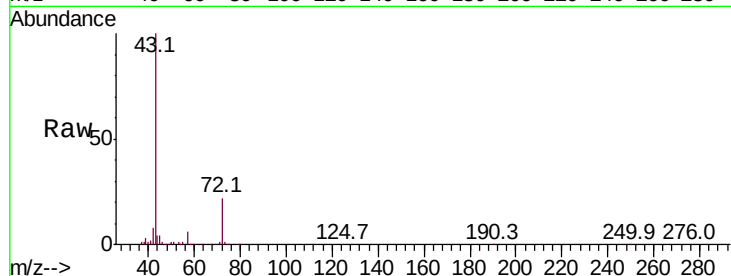
#34
2-Butanone
Concen: 3.654 ppbv m
RT: 5.23 min Scan# 760
Delta R.T. 0.00 min
Lab File: VL037634.D
Acq: 17 Sep 2021 3:14

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tot Ion: 43 Resp: 636033
Ion Ratio Lower Upper
43 100
72 23.2 18.4 27.6

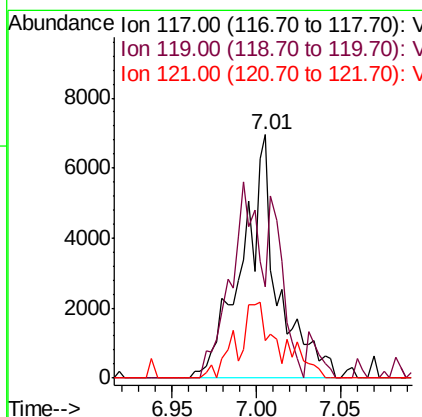
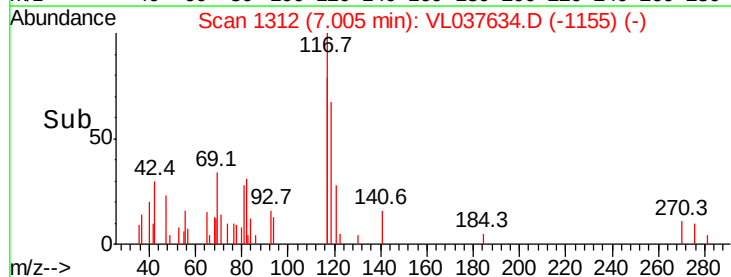
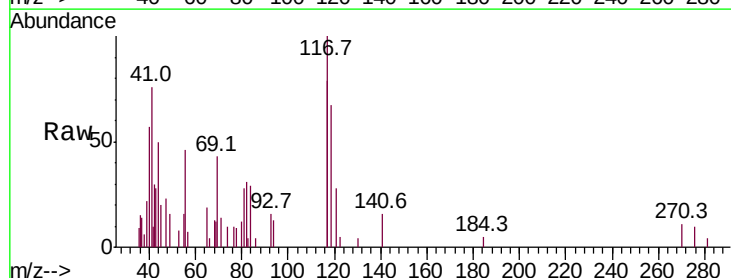
Manual Integrations
APPROVED

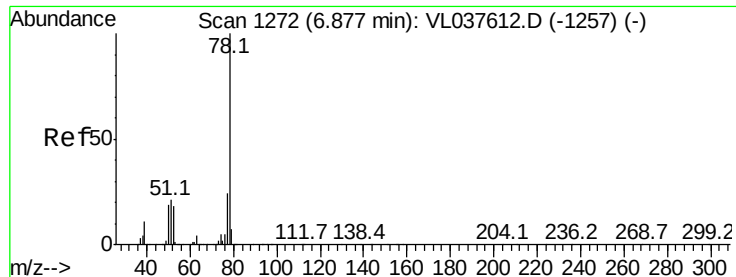
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#35
Carbon Tetrachloride
Concen: 0.042 ppbv m
RT: 7.01 min Scan# 1312
Delta R.T. 0.00 min
Lab File: VL037634.D
Acq: 17 Sep 2021 3:14

Tgt Ion: 117 Resp: 10272
Ion Ratio Lower Upper
117 100
119 66.9 77.0 115.6#
121 27.7 24.5 36.7





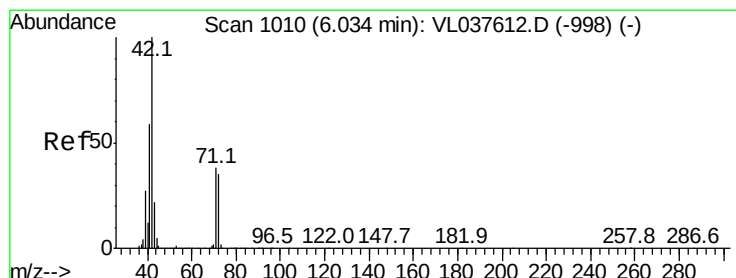
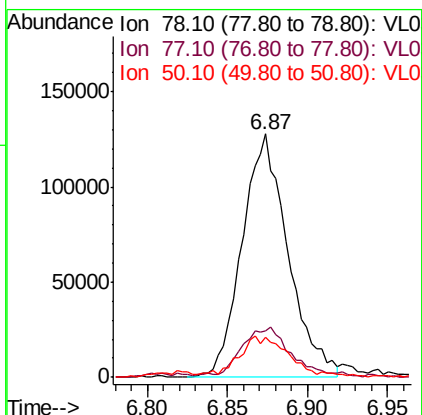
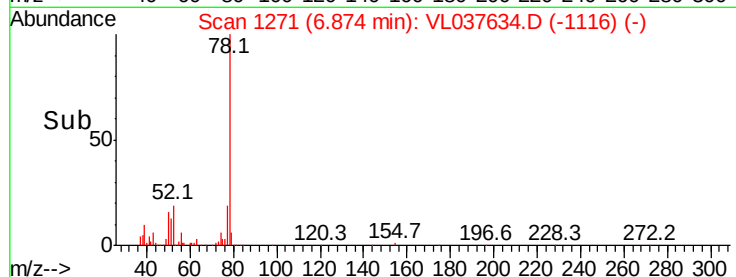
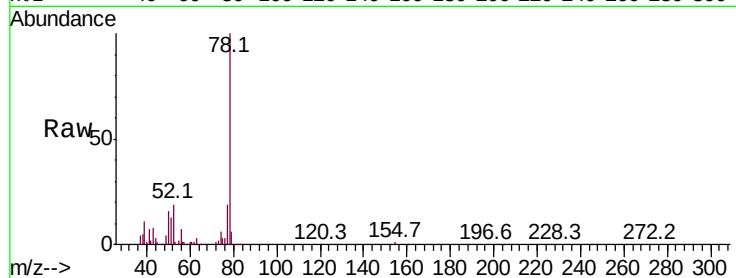
#36
Benzene
Concen: 0.704 ppbv
RT: 6.87 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VL037634.D
Acq: 17 Sep 2021 3:14

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tot Ion	Ratio	Lower	Upper
78	100		
77	18.0	19.0	28.4#
50	15.1	14.8	22.2

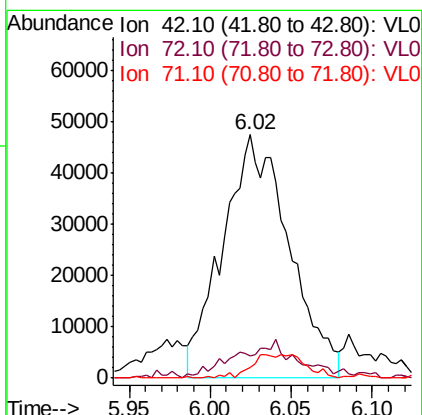
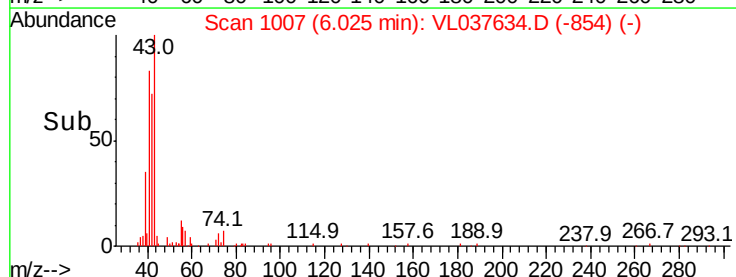
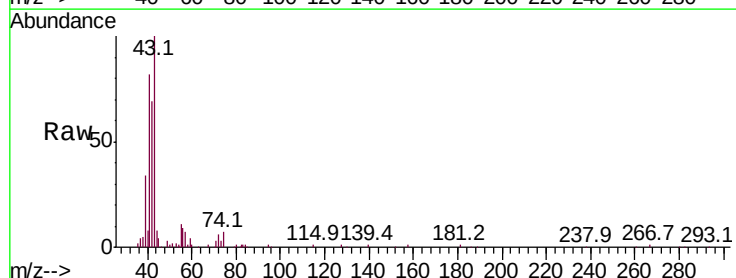
Manual Integrations
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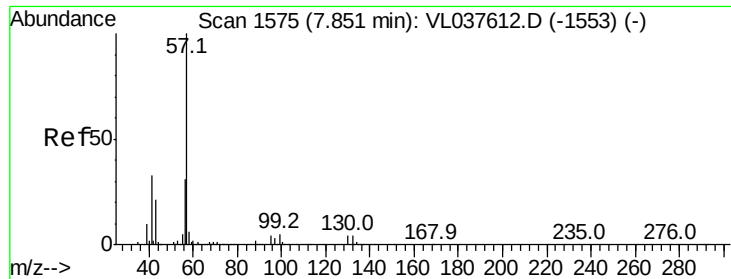
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#41
Tetrahydrofuran
Concen: 1.654 ppbv m
RT: 6.02 min Scan# 1007
Delta R.T. -0.01 min
Lab File: VL037634.D
Acq: 17 Sep 2021 3:14

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	31.4	47.2#
71	0.0	30.6	46.0#





#44

2,2,4-Trimethylpentane

Concen: 0.541 ppbv

RT: 7.85 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VL037634.D

Acq: 17 Sep 2021 3:14

Instrument :

MSVOA_L

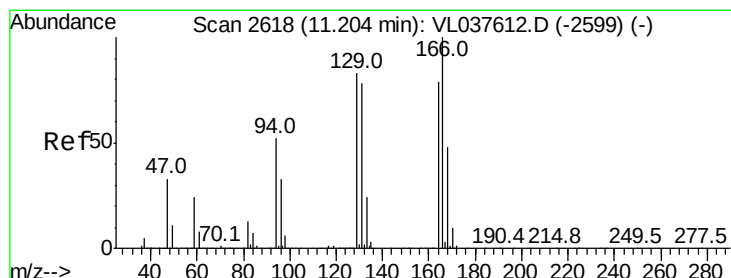
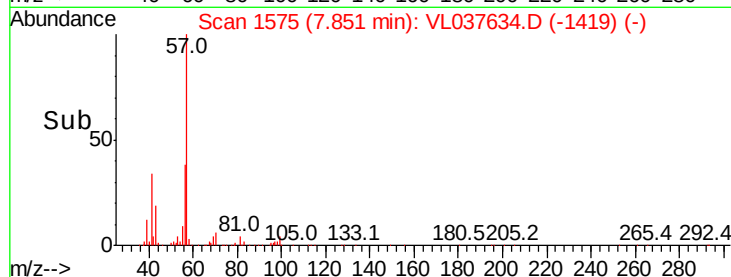
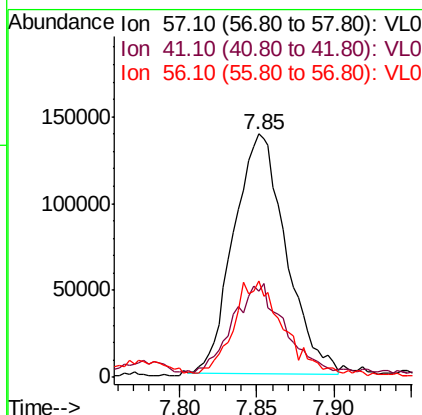
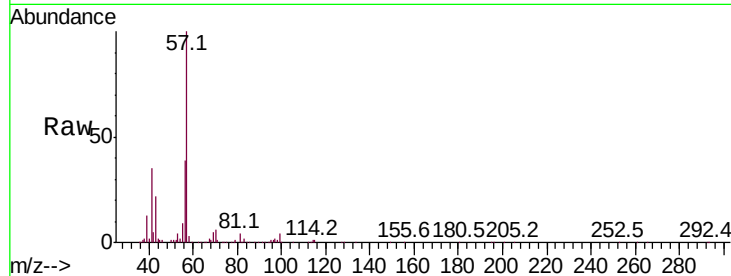
ClientSampled :

SV2

Tot Ion	Ratio	Lower	Upper
57	100		
41	41.0	26.1	39.1#
56	39.1	25.7	38.5#

Manual Integrations
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#52

Tetrachloroethene

Concen: 0.074 ppbv m

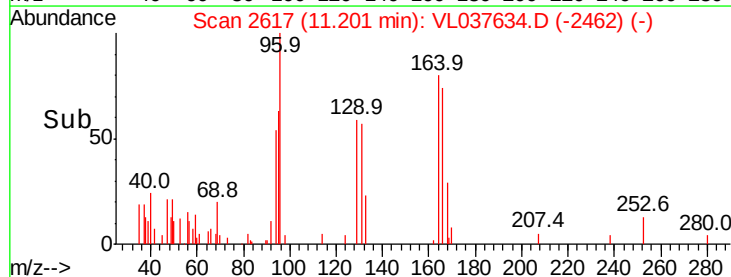
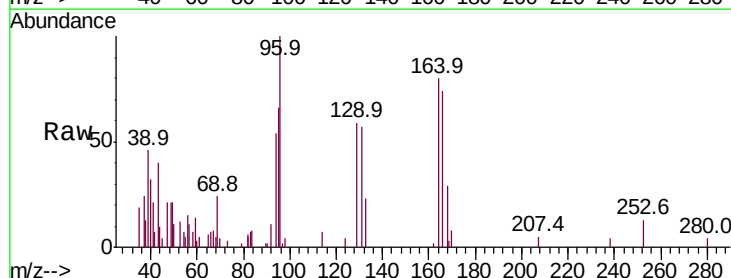
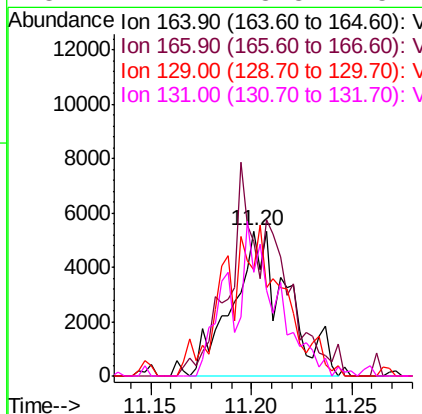
RT: 11.20 min Scan# 2617

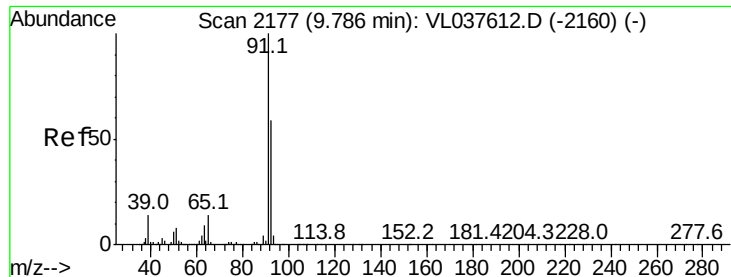
Delta R.T. -0.00 min

Lab File: VL037634.D

Acq: 17 Sep 2021 3:14

Tgt Ion	Ratio	Lower	Upper
164	100		
166	93.1	101.2	151.8#
129	73.7	84.0	126.0#
131	71.7	78.8	118.2#





#53

Toluene

Concen: 4.816 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VL037634.D

Acq: 17 Sep 2021 3:14

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tot Ion: 91 Resp: 1911820

Ion Ratio Lower Upper

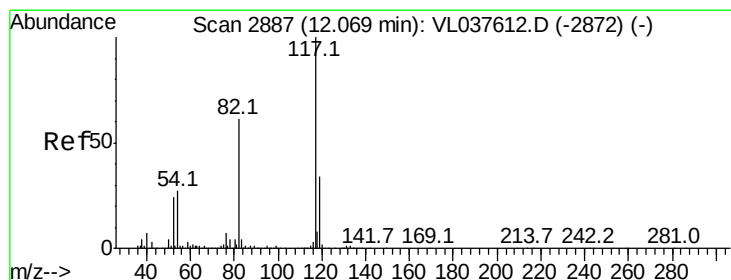
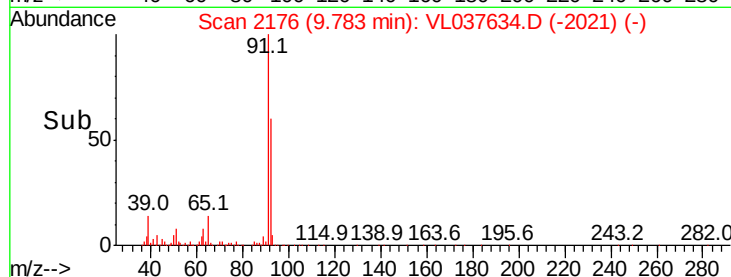
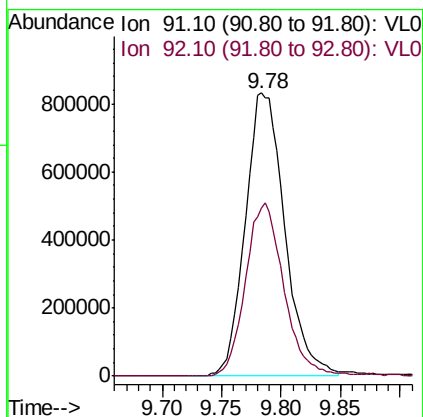
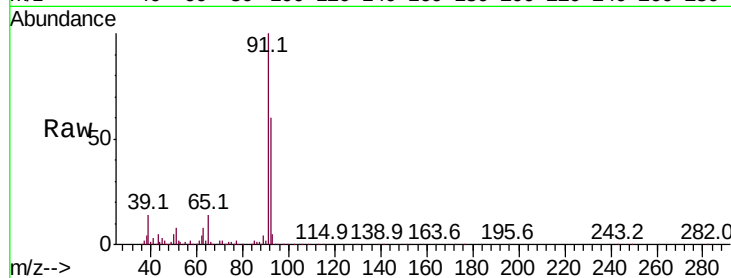
91 100

92 60.4 48.9 73.3

Manual Integrations
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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. -0.00 min

Lab File: VL037634.D

Acq: 17 Sep 2021 3:14

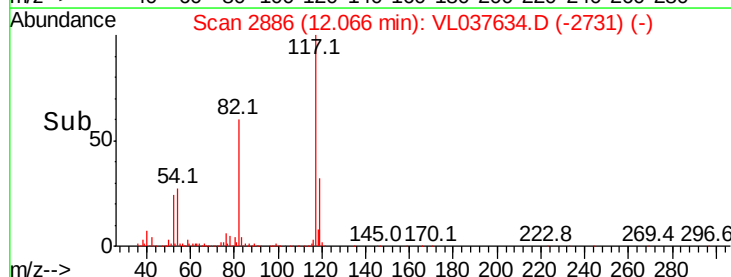
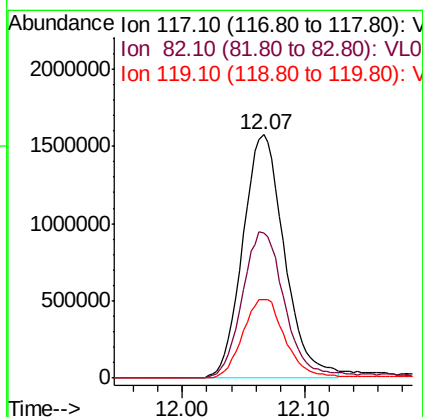
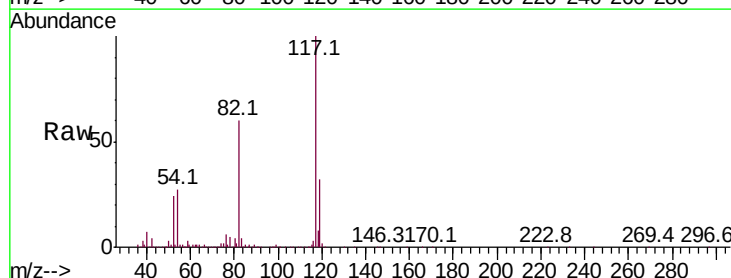
Tgt Ion: 117 Resp: 3711775

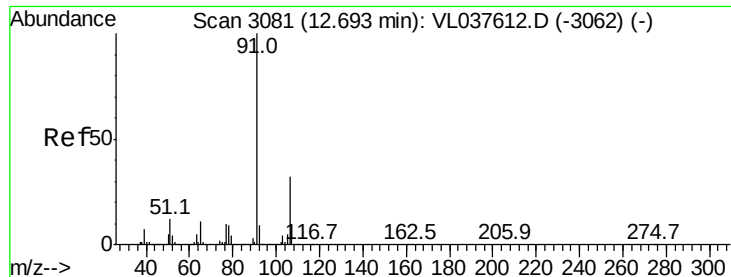
Ion Ratio Lower Upper

117 100

82 61.5 50.6 75.8

119 34.6 26.2 39.2





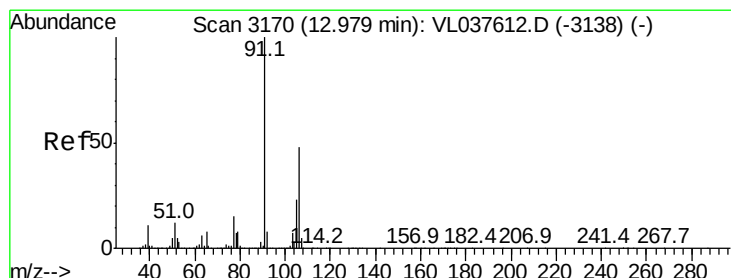
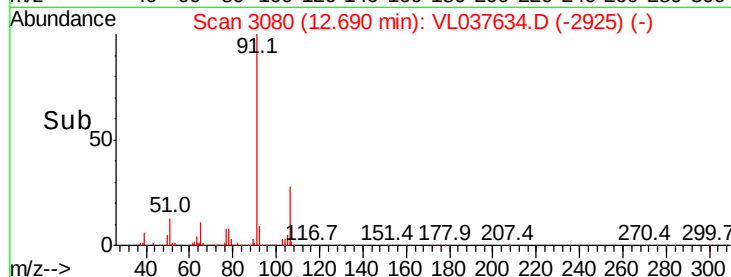
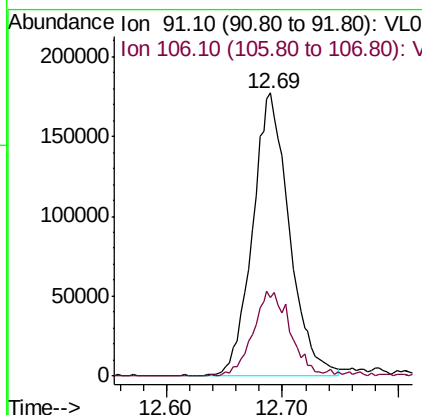
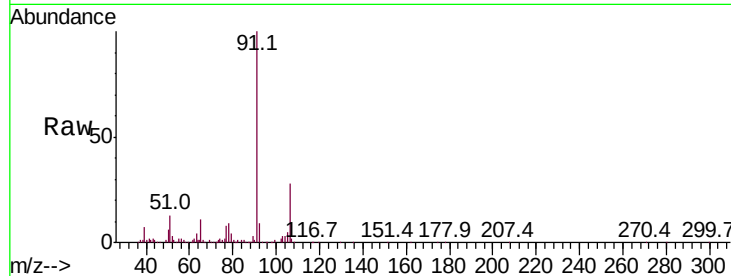
#58
Ethyl Benzene
Concen: 0.792 ppbv
RT: 12.69 min Scan# 3080
Delta R.T. -0.00 min
Lab File: VL037634.D
Acq: 17 Sep 2021 3:14

Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion: 91 Resp: 390371
Ion Ratio Lower Upper
91 100
106 27.9 25.3 37.9

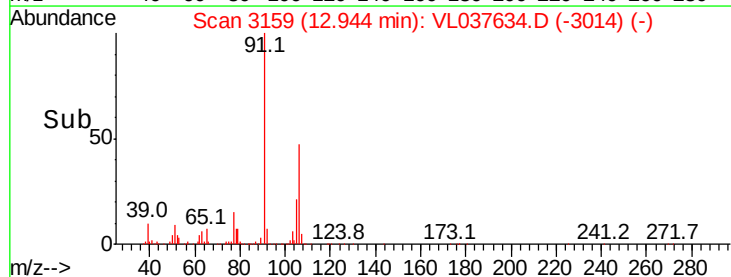
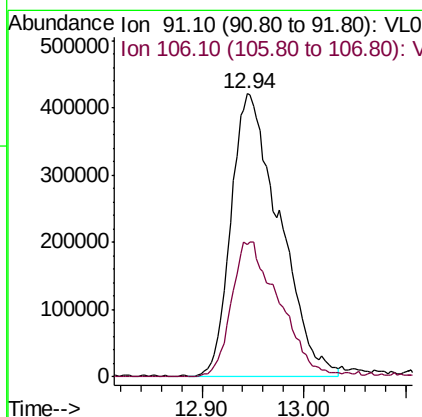
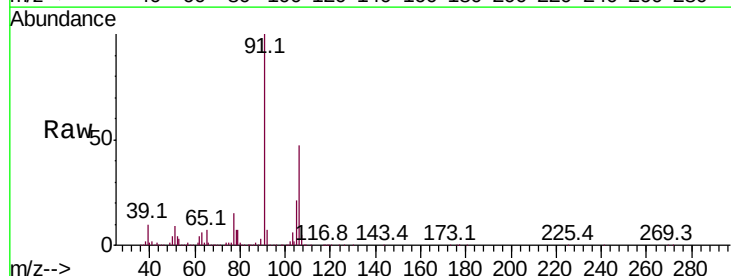
Manual Integrations
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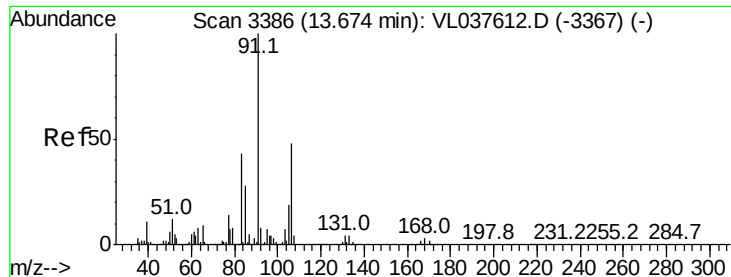
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#59
m/p-Xylene
Concen: 3.243 ppbv m
RT: 12.94 min Scan# 3159
Delta R.T. -0.04 min
Lab File: VL037634.D
Acq: 17 Sep 2021 3:14

Tgt Ion: 91 Resp: 1392554
Ion Ratio Lower Upper
91 100
106 0.0 36.6 55.0#





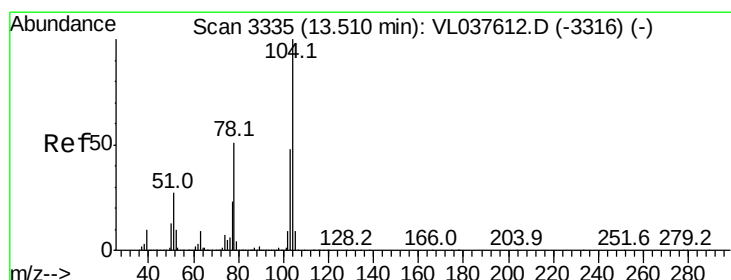
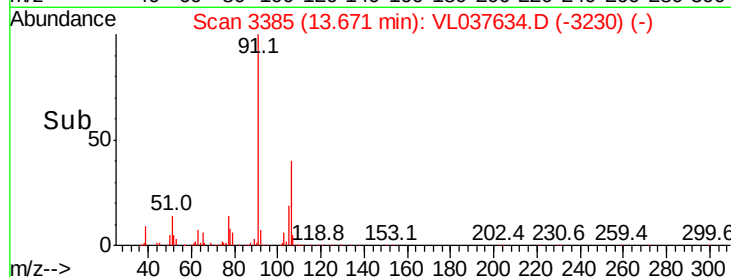
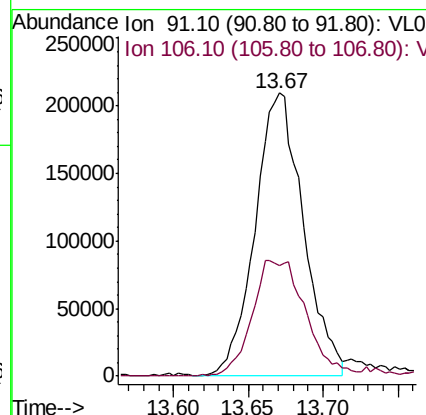
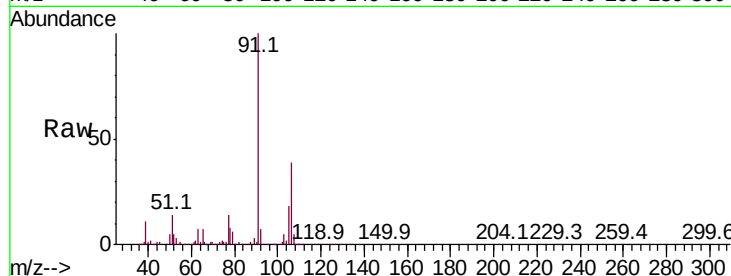
#60
o-Xylene
Concen: 1.147 ppbv
RT: 13.67 min Scan# 3385
Delta R.T. -0.00 min
Lab File: VL037634.D
Acq: 17 Sep 2021 3:14

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tot Ion	Ratio	Lower	Upper
91	100		
106	47.5	23.0	69.0

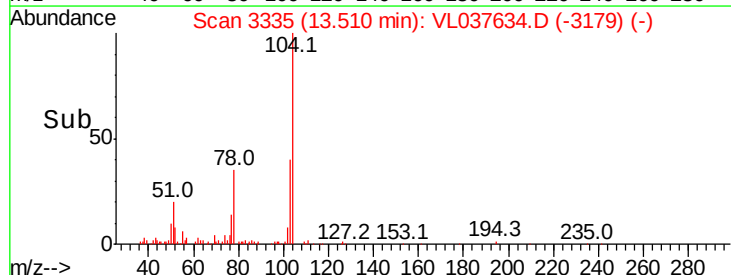
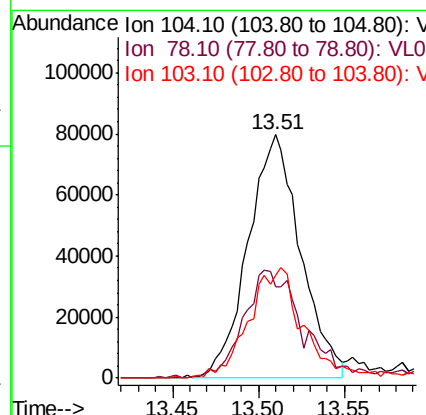
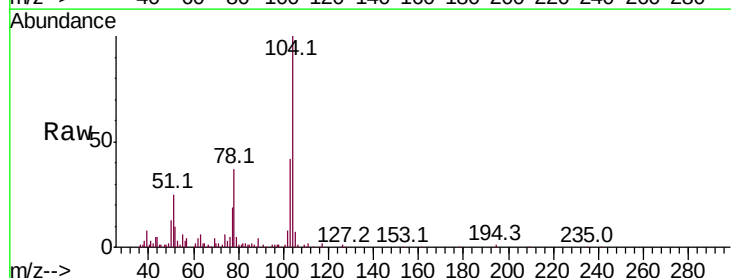
Manual Integrations
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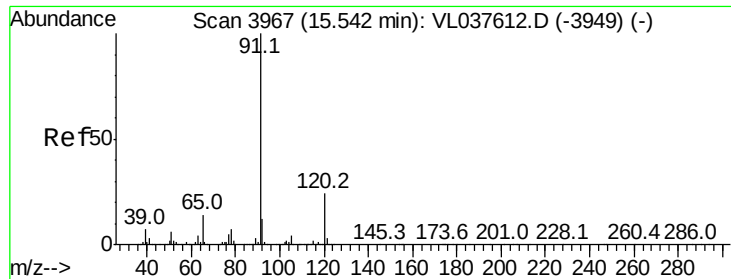
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#61
Styrene
Concen: 0.839 ppbv
RT: 13.51 min Scan# 3335
Delta R.T. 0.00 min
Lab File: VL037634.D
Acq: 17 Sep 2021 3:14

Tgt Ion	Ratio	Lower	Upper
104	100		
78	49.6	39.7	59.5
103	48.6	38.8	58.2





#64

n-propylbenzene

Concen: 0.109 ppbv m

RT: 15.54 min Scan# 3965

Delta R.T. -0.01 min

Lab File: VL037634.D

Acq: 17 Sep 2021 3:14

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tot Ion:120 Resp: 16074

Ion Ratio Lower Upper

120 100

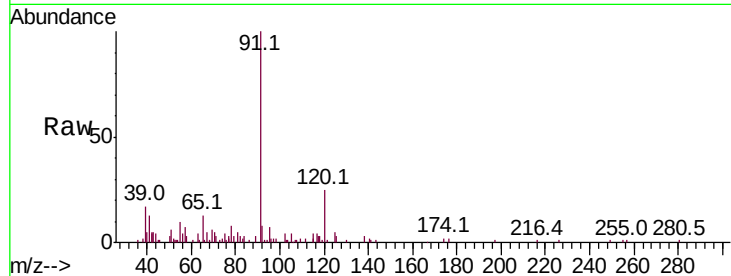
91 471.2 345.0 517.4

Manual Integrations

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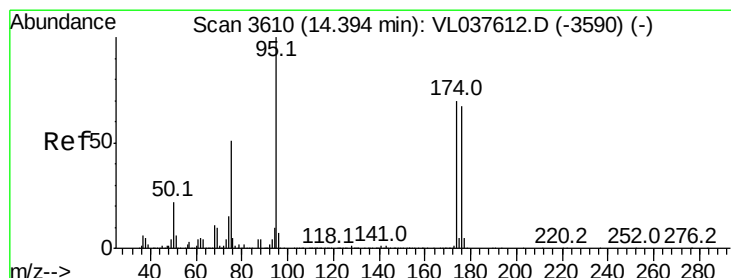
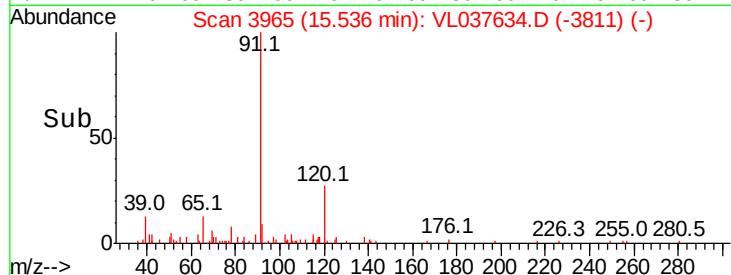
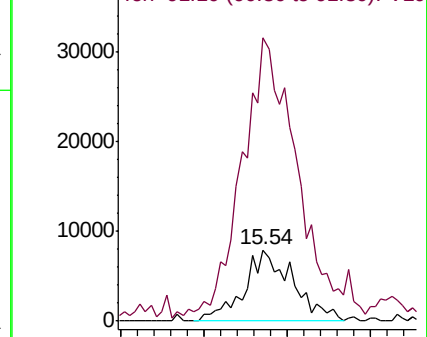
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Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#68

1-Bromo-4-Fluorobenzene

Concen: 9.807 ppbv

RT: 14.40 min Scan# 3611

Delta R.T. 0.00 min

Lab File: VL037634.D

Acq: 17 Sep 2021 3:14

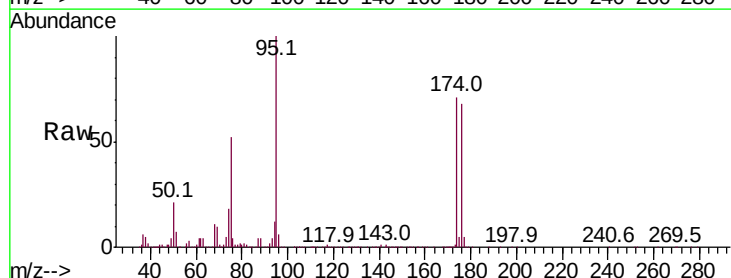
Tgt Ion: 95 Resp: 2630700

Ion Ratio Lower Upper

95 100

174 77.1 56.3 84.5

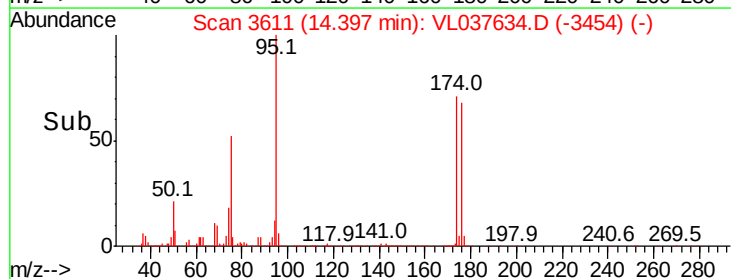
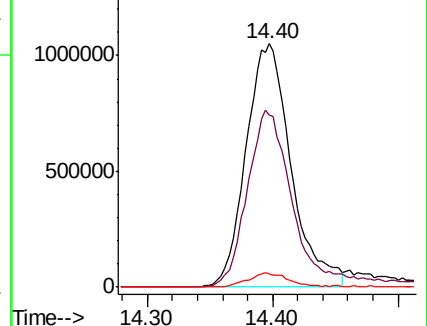
175 5.3 4.4 6.6

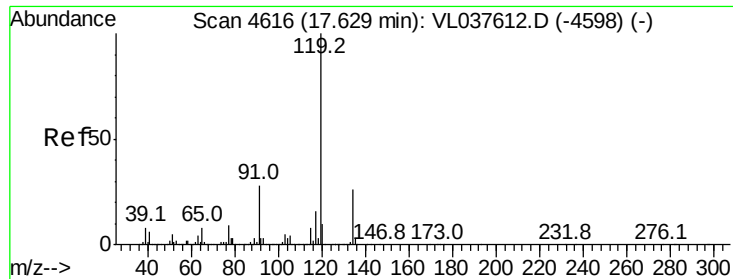


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





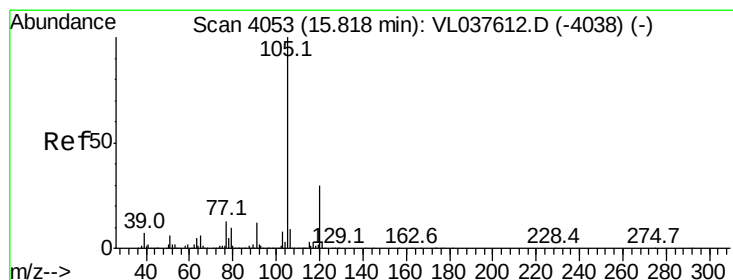
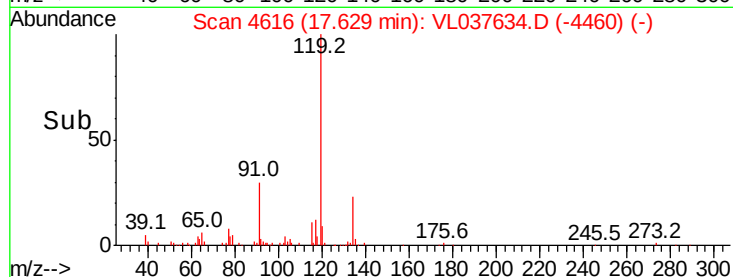
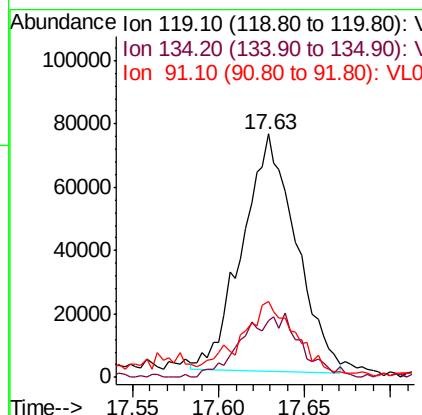
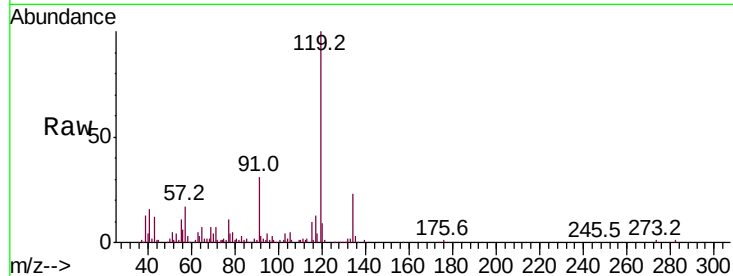
#69
 p-Isopropyltoluene
 Concen: 0.285 ppbv
 RT: 17.63 min Scan# 4616
 Delta R.T. 0.00 min
 Lab File: VL037634.D
 Acq: 17 Sep 2021 3:14

Instrument :
 MSVOA_L
 ClientSampled :
 SV2

Tot Ion	Ratio	Resp Lower	Upper
119	100		
134	29.5	21.2	31.8
91	33.5	22.2	33.2#

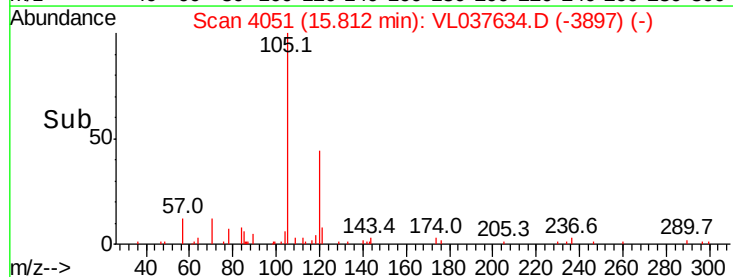
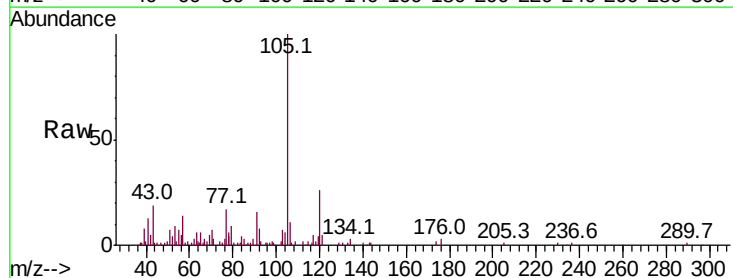
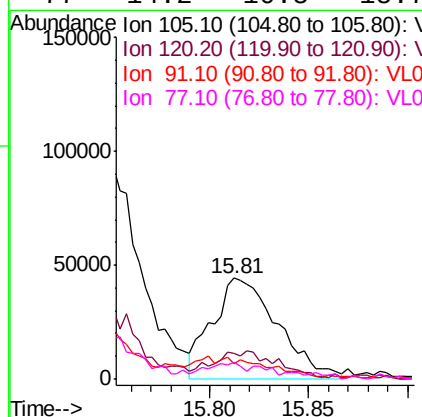
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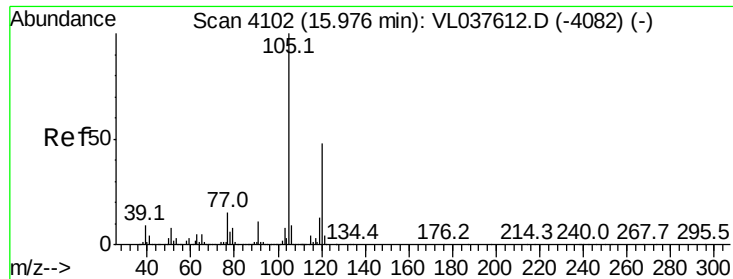
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#72
 4-Ethyltoluene
 Concen: 0.217 ppbv m
 RT: 15.81 min Scan# 4051
 Delta R.T. -0.01 min
 Lab File: VL037634.D
 Acq: 17 Sep 2021 3:14

Tgt Ion	Ratio	Resp Lower	Upper
105	100		
120	30.6	24.7	37.1
91	0.0	9.9	14.9#
77	14.2	10.5	15.7





#73

1,3,5-Trimethylbenzene

Concen: 0.199 ppbv m

RT: 15.98 min Scan# 4102

Delta R.T. 0.00 min

Lab File: VL037634.D

Acq: 17 Sep 2021 3:14

Instrument :

MSVOA_L

ClientSampled :

SV2

Tot Ion:105 Resp: 86802

Ion Ratio Lower Upper

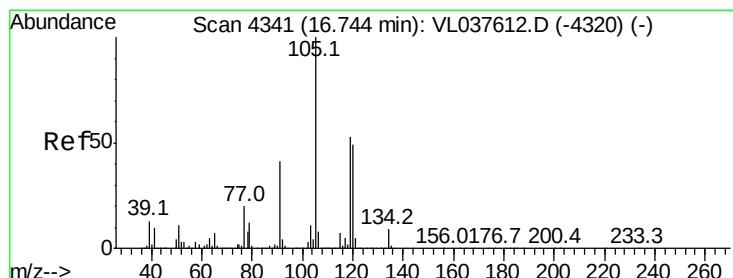
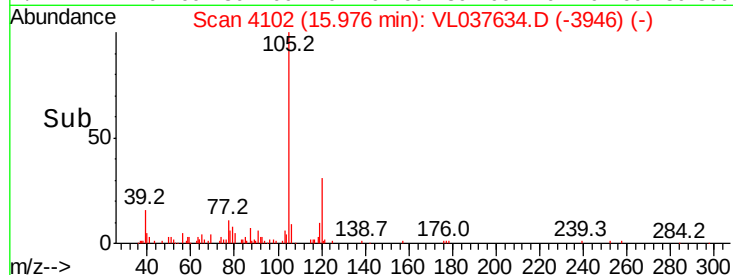
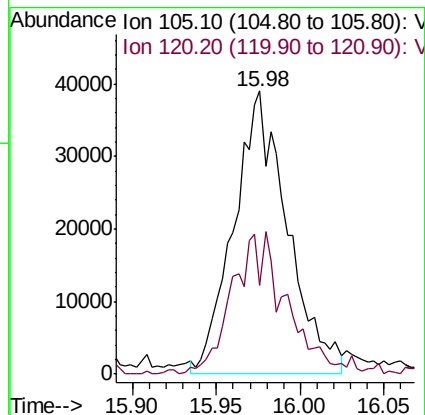
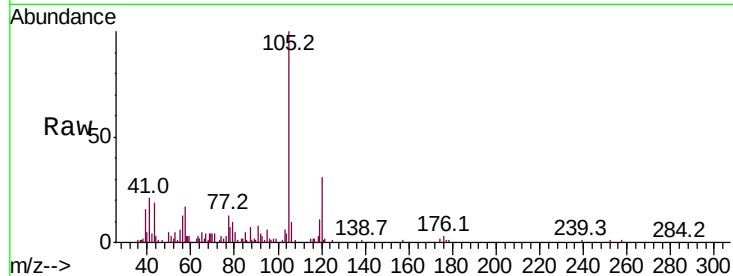
105 100

120 31.3 38.3 57.5#

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#74

1,2,4-Trimethylbenzene

Concen: 0.666 ppbv

RT: 16.74 min Scan# 4340

Delta R.T. -0.00 min

Lab File: VL037634.D

Acq: 17 Sep 2021 3:14

Tgt Ion:105 Resp: 306774

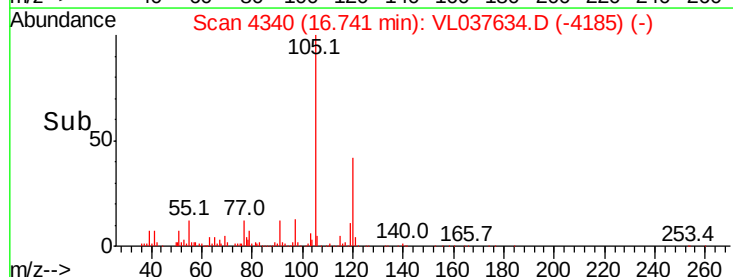
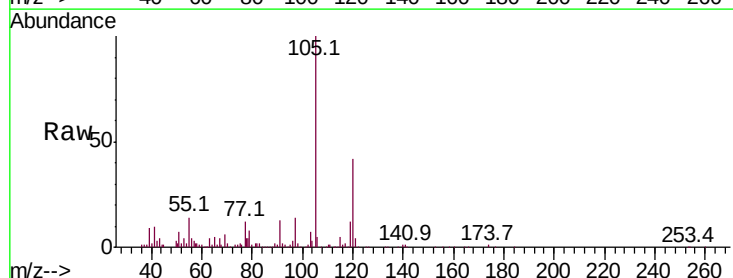
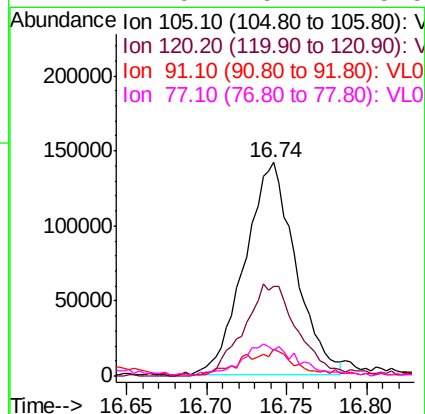
Ion Ratio Lower Upper

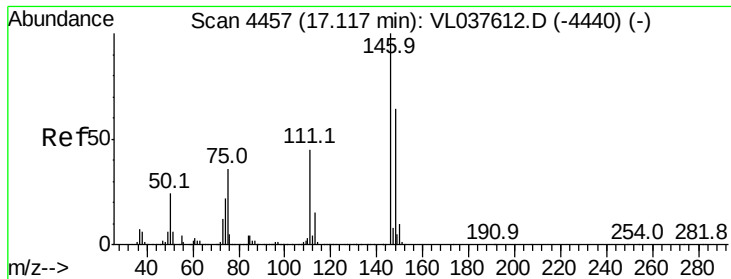
105 100

120 42.3 39.4 59.0

91 12.2 33.3 49.9#

77 11.5 15.7 23.5#





#76

1,4-Dichlorobenzene

Concen: 0.194 ppbv m

RT: 17.12 min Scan# 4457

Delta R.T. 0.00 min

Lab File: VL037634.D

Acq: 17 Sep 2021 3:14

Instrument :

MSVOA_L

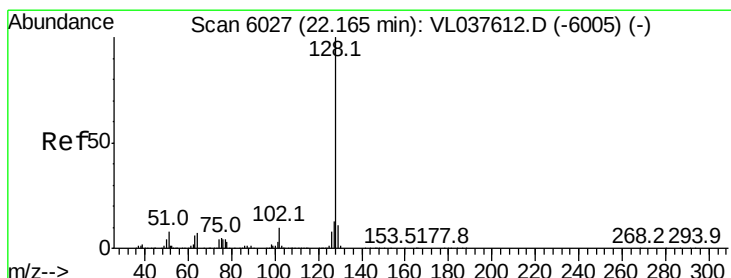
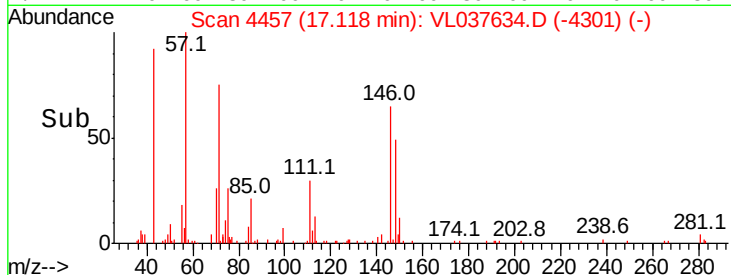
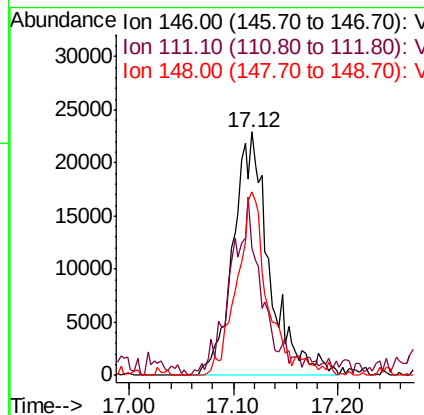
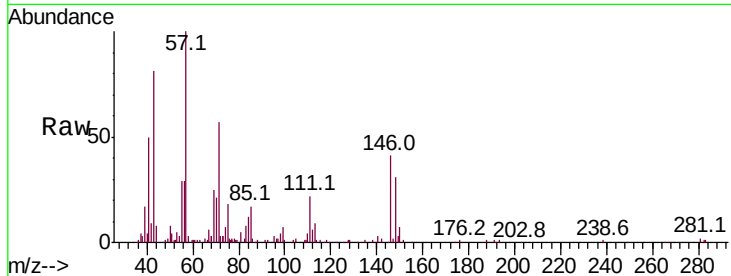
ClientSampled :

SV2

Tot Ion:	146	Resp:	54883
Ion Ratio	Lower	Upper	
146	100		
111	0.0	22.5	67.5#
148	0.0	32.9	98.6#

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#79

Naphthalene

Concen: 0.339 ppbv m

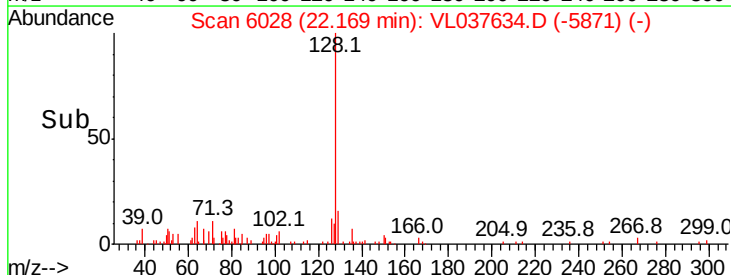
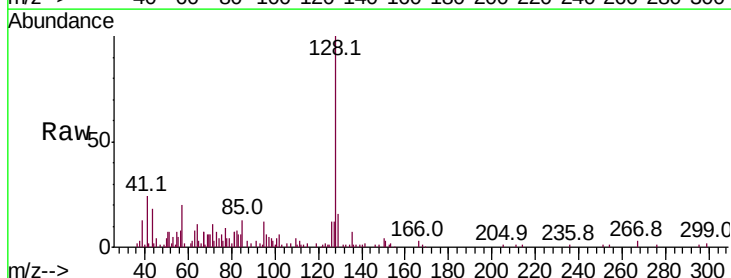
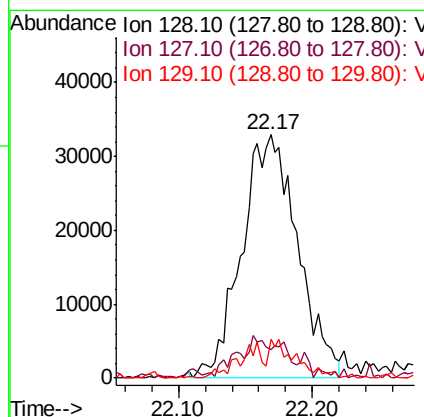
RT: 22.17 min Scan# 6028

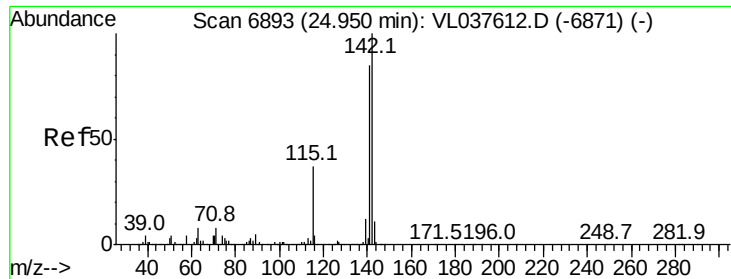
Delta R.T. 0.00 min

Lab File: VL037634.D

Acq: 17 Sep 2021 3:14

Tgt Ion:	128	Resp:	95832
Ion Ratio	Lower	Upper	
128	100		
127	11.7	10.6	16.0
129	15.9	8.6	12.8#





#80
 Naphthalene, 2-methyl-
 Concen: 0.186 ppbv
 RT: 24.96 min Scan# 6895
 Delta R.T. 0.01 min
 Lab File: VL037634.D
 Acq: 17 Sep 2021 3:14

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Tot Ion	Ratio	Lower	Upper
142	100		
141	76.8	70.9	106.3
115	52.6	29.6	44.4

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